

THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of: MAKIYAMA, Kozo et al.

Group Art Unit: 2826

#8/AMOT A/8/03

Serial No.: 10/084,924

Examiner: P. GREENE

Filed: March 1, 2002

P.T.O. Confirmation No.: 7143

For: SEMICONDUCTOR DEVICE WITH MUSHROOM ELECTRODE AND

MANUFACTURE METHOD THEREOF

## **AMENDMENT UNDER 37 CFR §1.111**

Commissioner for Patents Washington, D.C. 20231

April 2, 2003

Sir:

In response to the Office Action dated January 2, 2003, please amend the above-identified application as follows:

## **IN THE CLAIMS:**

## **AMEND** claim 1 to read as follows:

1. (Amended) A semiconductor device comprising:

a semiconductor substrate having current input/output regions via which current flows;

a first insulating film formed on said semiconductor substrate and having a gate electrode opening; and

a mushroom gate electrode structure formed on said semiconductor substrate via the gate electrode opening, said mushroom gate electrode structure having a stem and a head formed on the stem, the stem having a limited size on said semiconductor substrate along a current direction and having a forward taper shape upwardly and monotonically increasing the size along the current

